

FIRST B.Pharm. EXAMINATION, APRIL 1990

ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION

Time : Three hours

Maximum : 100 marks

Answer ALL the questions.

Draw diagrams wherever possible.

1. (a) Describe the chambers of heart and the openings in each chamber.

Or

(b) Classify the joints in human body. Describe them with examples. (15 marks)

2. Draw a diagram to show the structure of skin and describe the functions of skin. (15 marks)

3. Write briefly on any *four* of the following :

(a) Ribs.

(b) Regulation of respiration.

(c) Nephron.

(d) Cerebellum.

(e) Platelets.

(f) Uterus.

(4×5=20 marks)

4. (a) Classify the white blood corpuscles and describe their functions.

Or

(b) Define blood pressure. Discuss the factors maintaining the blood pressure. (15 marks)

5. Describe the pituitary gland and discuss its secretions. (15 marks)

6. Write briefly on any *four* of the following :

(a) Balanced diet.

(b) D.D.T.

(c) Water-borne diseases.

(d) First aid in burns.

(e) Immunisation.

(f) Tubectomy and vasectomy. (4×5=20 marks)

OCTOBER - 1990

011

FIRST B.Pharm. DEGREE EXAMINATION, OCTOBER 1990.

Paper III — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Time : Three hours.

Maximum : 100 marks.

Answer ALL the questions.

Illustrate your answers with suitable diagrams.

1. (a) Define cardiac cycle. Describe the phases in a cardiac cycle.

Or

(b) Describe the anatomy of stomach and discuss the composition and functions of gastric juice. (15 marks)

2. Describe the structure of kidney and discuss the formation of urine. (15 marks)

3. Write briefly on any four of the following :

(a) Vertebral column.

(b) Bile.

(c) Spinal cord.

(d) Testis.

(e) Trachea.

(f) Lymph nodes.

(20 marks)

4. (a) Describe the composition of blood. Discuss the function of the components.

Or

(b) Draw a section of eyeball and label the parts. Describe how the vision is appreciated. (15 marks)

5. Describe the structure of the suprarenal glands and discuss the functions of their hormones. (15 marks)

6. Write briefly on any four of the following :

(a) Disinfectants.

(b) D.P.T. Vaccine.

(c) Vitamin B complex.

(d) Contraceptive methods in females.

(e) Control of cholera.

(f) First aid in drowning. (4 × 5 = 20 marks)

APRIL - 1991

036

FIRST B. PHARM. DEGREE EXAMINATION, APRIL 1991.

Paper III — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Time: Three hours. Maximum. 100 marks.

Answer ALL the questions.

Draw diagrams wherever necessary.

1. Describe the anatomy of small intestine and discuss its functions. (15 marks)
2. Define arterial blood pressure. Discuss the anatomy of the heart in relation to its function. (15 marks)
3. Write briefly on the following :
 - (a) Nephron
 - (b) Respiration
 - (c) Ovary
 - (d) Skin. (4 × 5 = 20 marks)
4. Mention the protein-rich food stuffs and discuss the importance of proteins for the functions of human body. (15 marks)

5. Describe the anatomy of the pituitary gland and discuss the functions of its hormones. (15 marks)

6. Write briefly on the following :

- (a) Communicable diseases
- (b) First-aid in fracture of the forearm
- (c) Vitamin A
- (d) Functions of the hypothalamus.

(4 × 5 = 20 marks)

APRIL - 1991

036A

FIRST B.PHARM. EXAMINATION, APRIL 1991.

Paper III — ANATOMY PHYSIOLOGY AND HEALTH
EDUCATION

Time : Two and a half hours. maximum : 60 marks.

Sections A and B should be answered in separate
answer books.

Draw diagrams wherever needed for answers in
Sections A and B.

SECTION A

Answer any TWO questions.

1. Describe the histology of the thyroid gland. Give an account of the biosynthesis, function and regulation of thyroid hormones. (15 marks)
2. Describe the structure of a Nephron. How is urine concentrated? (15 marks)
3. Describe the nuclei and functions of thalamus. (15 marks)

SECTION B

4. Write short notes on any six questions :
 - (a) Erythroblastosis foetalis.
 - (b) Lymph.
 - (c) Axon reflex.
 - (d) Hypoxia.
 - (e) Fat soluble vitamins.
 - (f) AIDS
 - (g) Oral contraceptives.
 - (h) Immunization. (6 × 5 = 30 marks)

OCTOBER - 1991

036

FIRST B.Pharm. DEGREE EXAMINATION, OCTOBER 1991.

Paper III — ANATOMY, PHYSIOLOGY AND
HEALTH EDUCATION

Time : Three hours

Maximum : 100 marks

Answer ALL the questions.

Illustrate your answers with suitable diagrams.

1. Describe the anatomy of Lung and discuss the mechanism of respiration. (15 marks)
2. Describe the anatomy of Liver and discuss its various functions. (15 marks)
3. Write briefly on the following : (4 × 5 = 20 marks)
 - (a) Cardiac cycle.
 - (b) Formation of urine.
 - (c) Cerebellum.
 - (d) Functions of skin.
4. Enumerate the communicable diseases and discuss the prevention of them in Man. (15 marks)
5. Describe the anatomy of Thyroid gland, and discuss the functions of its hormones. (15 marks)

6. Write briefly on the following : (4 × 5 = 20 marks)

- (a) Platelets.
 - (b) The Ear.
 - (c) First-aid in Snake-bite.
 - (d) Contraceptive methods in females.
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036A
OCTOBER - 1991

FIRST B.Pharm. DEGREE EXAMINATION, OCTOBER 1991

(New Regulations)

Paper III — ANATOMY, PHYSIOLOGY AND
HEALTH EDUCATION

Time : Two and a half hours Maximum : 60 marks

Answer Sections A and B in separate answer books

SECTION A — (30 marks)

Answer any TWO questions only.

1. Describe the stages of erythropoiesis. Mention the factors influencing it.
2. Describe the biosynthesis and actions of thyroid hormones.
3. Describe the composition and functions of gastric juice. What is the function of gastrin?
4. Discuss the transport of oxygen in the blood. What are the factors influencing oxygen dissociation?

SECTION B — (30 marks)

Answer any SIX questions only.

Write briefly on :

1. Cardiac cycle.
 2. Formation of urine.
 3. Cerebellum.
 4. Functions of skin.
 5. Platelets.
 6. Audio visual communication.
 7. First aid in snake-bite.
 8. Contraceptive methods in females.
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APRIL - 1993

[RS 530]

FIRST B.Pharm. DEGREE EXAMINATION.

(Old Regulations)

Paper III -- ANATOMY, PHYSIOLOGY AND
HEALTH EDUCATION

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw diagrams wherever necessary.

1. (a) Describe diagrammatically the parts of the excretory system. How is urine formed?

Or

(b) Describe briefly the genital system. (15)

2. Name the respiratory centres. Discuss the nervous regulation of respiration. (15)

3. Write briefly on any FOUR of the following : (20)

- (a) Retina.
- (b) Taste sensation.
- (c) CSF.
- (d) Rickets.
- (e) Pepsin.
- (f) Functions of Placenta.

4. (a) Describe with the help of a diagram the anatomical structures in the heart and their functions.

Or

(b) Name the hormones of the anterior pituitary and discuss their functions. (15)

5. Describe the ascending tracts of the Spinal cord and discuss their functions. (15)

6. Write briefly on any FOUR of the following : (4 × 5 = 20)

- (a) Oral contraceptives.
 - (b) Atlas.
 - (c) Antirabies vaccine.
 - (d) Immunisation of the infant and their principle.
 - (e) Classification of disinfectants.
 - (f) Abnormal constituents of urine.
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APRIL - 1993

[RS 535]

FIRST B.Pharm. DEGREE EXAMINATION,

(New Regulations)

Paper III — ANATOMY PHYSIOLOGY AND
HEALTH EDUCATION

Time : Three hours. Maximum : 90 marks.
Two and a half hours Section A and B : 60 marks.
for Sections A and B

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Describe the coagulation of blood. Name three anti-coagulants.
2. Draw a spirogram. Define various volumes and capacities. How will you measure vital capacity?
3. How is Thyroxine produced? Describe its function.
4. Describe the organisation of Spinal cord. What is a reflex action?

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

5. Quarantine.
6. D.D.T.
7. Protected water supply.
8. I.U.C.D.
9. Scabies
10. Malnutrition.
11. Triple antigen.
12. Air Borne Diseases.
13. Mental Health.

NOVEMBER - 1993

[PR 148]

FIRST B.Pharm. DEGREE EXAMINATION.

(Old Regulations)

Paper III -- ANATOMY, PHYSIOLOGY AND
HEALTH EDUCATION

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw diagrams wherever necessary.

1. (a) Name the parts of the digestive system. How are proteins digested and absorbed from the gastro intestinal tract? (15)

Or

(b) Describe the composition of blood. Enumerate the functions of plasma proteins.

2. Describe with the help of a diagram the structure of the eye ball. What are the functions of its different parts? (15)

3. Write briefly on any FOUR of the following :

- (a) Shoulder joint.
- (b) Ovulation.
- (c) Diaphragm.
- (d) Reflex arc.
- (e) First heart sound.
- (f) Liver.

(20)

[PR 148]

4. (a) Describe the structure of adrenal cortex and discuss its functions. (15)

Or

- (b) Enumerate the functions of cerebellum.

5. What is the normal arterial blood pressure? Describe the factors regulating blood pressure. (15)

6. Write briefly on any FOUR of the following :

- (a) Water Borne diseases.
- (b) Triple antigen.
- (c) First aid in snake bite.
- (d) Lymph.
- (e) Principles and methods of food preservation.
- (f) Asphyxia. (4 × 5 = 20)

NOVEMBER - 1993

[PR 152]

FIRST B.Pharm. DEGREE EXAMINATION.

(New Regulations)

Paper III — ANATOMY PHYSIOLOGY AND
HEALTH EDUCATION

Time : Three hours. Maximum : 90 marks.
Two and a half hours Section A and B : 60 marks.
for Sections A and B

Answer Section A and B in separate answer books.
Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. How will you determine Blood pressure? What are the factors that regulate blood pressure?
2. What are the different parts of a Nephron? Describe the important functions of each part.
3. Describe the functions of skin.
4. Describe the structure of eye. How is image formed?

[PR 152]

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

5. Disinfectant.
6. Immunisation.
7. Sewage and its treatment.
8. Water borne diseases.
9. AIDS.
10. Oral contraceptives.
11. First aid.
12. Control of Rodents.
13. Balanced diet.

NOVEMBER - 1994

FIRST B.Pharm. DEGREE EXAMINATION.

(New Regulations)

Paper III -- ANATOMY, PHYSIOLOGY AND
HEALTH EDUCATION

Time: Three hours Maximum: 90 marks

Two and a half hours Section A and B: 60 marks
for Section A and B

Answer Section A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A -- (2 x 15 = 30 marks)

Answer any TWO questions.

1. Draw a labelled diagram of the pelvic bone and describe it.
2. Draw the histological structure of the salivary gland and describe the physiology of its secretions.
3. Give an account of the anatomy and physiology of the parasympathetic branch of the autonomic nervous system.
4. With suitable labelled diagrams explain the structure and functions of the ear.

[ND 563]

SECTION B -- (6 x 5 = 30 marks)

Answer any SIX questions.

5. Name three diseases caused by bacteria and describe one of them.
 6. Give a brief account of the contraceptive pill.
 7. Name three water soluble vitamins and describe one of them.
 8. Give the microscopic structure of the thyroid.
 9. First aid for drowning.
 10. Myopia.
 11. Night blindness.
 12. Triple vaccine.
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APRIL - 1995

[SB 568]

SECTION—B

(6X5=30)

First B. Pharm. Degree Examination

(New Regulations)

Paper III - ANATOMY, PHYSIOLOGY AND
HEALTH EDUCATION

Time : Three hours Maximum : 90 marks

Two and a half hours Sections A and B : 60 marks
for Sections A and B

Answer Sections A and B in separate answer books

Answer Section C in the answer sheet provided

SECTION - A (2X15=30)

Answer any TWO questions.

1. Name the hormones which act on blood sugar level. Describe the mode of action of Insulin and glucagon.
2. Write the stages of spermatogenesis. Enumerate the factors that regulate it
3. Draw and label ECG and explain it.
4. Write short notes on Microscopic anatomy of
 - a) Supra renal gland
 - b) Thyroid gland and
 - c) Pancreas

5. Answer any SIX questions

- a) Oral contraceptive pills.
- b) Immunization schedule
- c) What is disinfection and mention various types
- d) Polio-vaccine
- e) Vitamin 'A'
- f) Rickets
- g) Communicable diseases
- h) First aid

[AK 703]

Sub. Code : 4158

FIRST B.Pharm. DEGREE EXAMINATION.

(New Regulations)

Paper III — ANATOMY, PHYSIOLOGY AND
HEALTH EDUCATION

Time : Three hours

Maximum : 90 marks

Two and a half hours

Sections A and B : 60 marks

for Sec. A and B

1. Answer Section A and B in separate answer books.
2. Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Give an account of the functions and regulation of pancreatic juice.
2. Draw a diagram to show the microscopic structure of the thyroid gland. Write the steps in the synthesis of thyroxine and describe how thyroxine secretion is regulated.
3. Draw and label the components of a spinal reflex arc. Specify the role of each component. Give three examples of reflexes. When are reflexes lost?

[AK 708]

4. List the mechanisms involved in the natural arrest of bleeding. Write the sequence of steps involved in the intrinsic and extrinsic pathways of blood clotting. Give the names and mechanism of action of any two invitro anticoagulants.

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

5. Give an account of essential amino acids.
 6. Notifiable diseases.
 7. Air borne diseases and their prevention.
 8. Malaria.
 9. Quarantine.
 10. Enumerate the functions of skin.
 11. Nutritional anemias.
 12. Kwashiorkor.
 13. Vasectomy.
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APRIL - 1996

[AK 708]

Sub. Code : 4164

FIRST B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — ANATOMY, PHYSIOLOGY AND
HEALTH EDUCATION

Time : Three hours

Maximum : 90 marks

Two and a half hours
for Sec. A and B

Sections A and B : 60 marks

1. Answer Section A and B in separate answer books.
2. Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Draw a labelled diagram of humerus and describe the bone.
2. Draw the histological structure of Adrenal cortex. Name its hormones and describe the important physiological actions of glucocorticoids.
3. What is Haemopoiesis? Describe in detail the development of red blood cells with diagrams.

[AK 708]

4. (a) Give an account of the regulation of arterial blood pressure. What do you understand by hypertension?

Or

(b) Name the salivary glands. Describe the composition and actions of saliva. How is salivary secretion regulated?

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

All questions carry equal marks.

5. What are the actions and deficiency features of Vitamin A?
6. Name four water borne diseases and describe one of them.
7. Draw a labelled diagram of different lung volumes and capacities. What is vital capacity?
8. Give an account of Essential Aminoacids.
9. What are the organisms producing diarrhoea? Mention the basic lines of treatment of diarrhoea.
10. Give an account of balanced diet.
11. Draw and label the diagram of visual pathway.
12. Enumerate the functions of skin.
13. Write a note on contraceptive methods in males.

[SV 704]

Sub. Code : 4164

FIRST B.Pharm. DEGREE EXAMINATION.

ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION

Time : Three hours

Maximum : 80 marks

Two and a half hours

Sec. A & Sec. B : 60 marks

For Sec. A and Sec. B

Sec. C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. With a neat labelled diagram, describe the internal anatomy of the heart.
2. Define Autonomic Nervous System. Describe its sympathetic division.
3. Describe the anatomy and histology of thyroid gland. What are its functions and effect of hyposecretion and hypersecretion.
4. Write in detail how respiratory gases are transported.

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

5. With the help of a diagram, describe the knee joint.
6. What is coagulation of blood? Describe the mechanism of coagulation and mention the factors that affect coagulation.
7. Distinguish 'renin' from 'secretin'. Where are they formed? Write their functions.
8. Write notes on protein digestion.

9. Enumerate the functions of cerebrum.
10. Briefly write how urine is formed.
11. Describe a hepatic lobule.
12. Draw and label a diagram of 'eye'.
13. Write notes on erythropoiesis.

APRIL - 1999

[SG 704]

Sub. Code : 4164

FIRST B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Time : Three hours Maximum : 90 marks

Two and a half hours Sec. A & Sec. B : 60 marks

for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Draw a labelled diagram of respiratory organs. Describe the mechanism of respiration.
2. Name the hormones secreted by the pituitary gland and describe the actions of any FOUR hormones. Add a note on the histology of pituitary gland.
3. Draw a labelled diagram of L.S. of skin and describe its functions.
4. Give the composition of blood and describe the process of coagulation of blood.

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

All questions carry equal marks.

5. Give the importance of fat soluble vitamins in the diet. Name the diseases caused by the deficiency of these vitamins.
6. Explain the principle of oral contraceptives.
7. Describe in brief synovial joint.
8. Give a brief account of preventive measures by which the water-borne diseases are controlled.
9. Outline the role of pharmacist in the family planning campaign.
10. Write the importance of dietary fiber.
11. Droplet infection.
12. Draw and label cross-section of Eyeball.
13. B.C.G. Vaccination.
14. Write functions of medulla oblongata.

[KA 704]

Sub. Code : 4164

FIRST B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Time : Three hours Maximum : 90 marks
Two and a half hours Sec. A & Sec. B : 60 marks
for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Describe the various stages of Erythropoiesis and what are the various factors essential for that? Add note on anaemia.
2. Describe in detail the anatomical features of Scapula with suitable diagrams. Briefly mention about Ball and socket joints.
3. Draw a diagram of the pituitary gland and label the parts. Mention about the various hormones secreted by anterior pituitary and their function. Add a note on Dwarfism.
4. Give a detailed account of endometrial changes occurring during a menstrual cycle and hormones lying behind the changes.

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

All questions carry equal marks.

5. Nutritive value of Green vegetables.
6. Prevention and control of Pulmonary Tuberculosis.
7. Histology of Adrenal cortex.
8. Role of pharmacist in Health Education.
9. Divisions of Vertebral column.
10. Functions of Parathyroid gland.
11. Problems of population explosion in India.
12. Functions of white blood cells.
13. Disease spread through insect vector.

APRIL - 2000

[KB 704]

Sub. Code : 4164

FIRST B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Time : Three hours Maximum : 90 marks
Two and a half hours Sec. A & Sec. B : 60 marks
for Sec. A & Sec. B Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Draw a labelled diagram of STERNUM and describe the bone.
2. Draw the microscopic structure of Pancreas and describe the actions of INSULIN on various metabolisms (i.e. carbohydrate, protein fat, nucleic acids and minerals).
3. Draw and label different parts of the ear and describe the role of various parts in the mechanism of hearing.
4. Define a Synapse. Enumerate the varieties of synapses and describe Synaptic Transmission.

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

All questions carry equal marks.

5. Name the various vector indices of malaria. Describe the asexual cycle of malarial parasite.
6. Active immunization and its merits and demerits.
7. Prevention of fungal infections of skin.
8. Cardiac resuscitation.
9. HIV infection.
10. Merits and demerits of condoms.
11. Potable water.
12. Prevention and control of obesity.
13. Essential amino acids.

[KC 704]

Sub. Code : 4164

FIRST B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Time : Three hours Maximum : 90 marks

Two and a half hours Sec. A and Sec. B : 60 marks
for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in Separate Answer Books.

Answer Section C in the Answer Sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. What is the normal arterial Blood pressure? Name the factors responsible for maintaining it. Describe its regulation. (1 + 4 + 10)
2. With a neat diagram label the different parts of a nephron? And explain the mechanism of formation of urine. (3 + 12)
3. Name the hormones which act on blood sugar level? Describe the mode of action of any two hormones. (2 + 13)
4. Draw the labelled diagram of the scapula and describe the bone? (5 + 10)

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

All questions carry equal marks.

5. Name the oral contraceptives? And how do the oral contraceptives act?
6. Draw and label the microscopic structure of Thyroid gland.
7. Write briefly how infectious diseases are communicated.
8. Name the fat soluble vitamins and their deficiency diseases.
9. Name the functions of skin and explain briefly sunstroke?
10. Sewage disposal.
11. How tuberculosis is communicated and controlled?
12. Enumerate the functions of Hypothalamus.